



**MITSUBISHI**  
**HEAVY INDUSTRIES, LTD.**

**RESIDENTIAL AIR CONDITIONERS** **R22**

**Heat pump**



For a better tomorrow  
High performance Air conditioner

07R03E-A-0



## CONSTANT SPEED MODEL

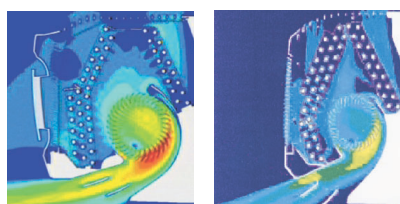
# SRK-HG·HE-2 series

*Aircraft technology was used in the design of the air conditioner's airflow system*

## Jet Air Scroll

We used the same aerodynamic analysis technology as used in developing jet engines.

CFD (computational fluid dynamics), used in blade shape design of jet engines, has been applied to the design of air channels in air conditioners to develop the ideal air channel system (air circulation). The airflow of the jets created in this system enable a large volume of air to be blown with minimum power consumption, yet the air flow is uniform, quiet and reaches points a long distance from the blower.



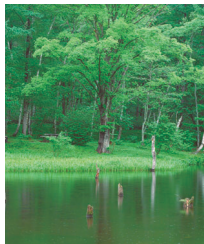
Slow ————— Fast  
Colors in the figure show the air speed.



*Generates the same amount of negative ions as a forest environment*

## 24-hour ION

The air conditioner main body employs a tourmaline-coated sheet. The sheet generates negative ions around the clock. Even when the air conditioner is not running, it generates as many negative ions (2,500– 3,000/cc) as in a forest, stream or fall does, allowing you to experience them without incurring any electrical charges.

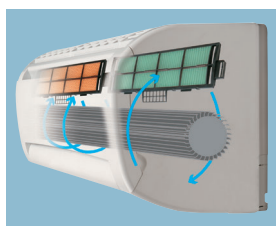


*Always keeping the indoor unit clean*

## Self Clean operation

“Self clean operation” is operated for 2 hours after the unit has stopped its normal operation.

The indoor unit is dried up and the growth of mold is restrained. Users can select whether this mode is utilized or not.



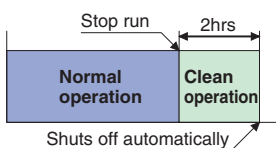
### Situation of mold after one week

When you don't execute “Self Clean Operation”

Fungal mycelia expand. Fungal mycelia Spore of mold

When you execute “Self Clean Operation”

The spore of mold doesn't germinate. Spore of mold



*Anti-microbial specifications and design will deliver cleanliness and safety*

## Anti-microbial blower fan

The blower fan has undergone anti-microbial treatment to resist mold and germs, making the system clean and safe. Foul odors and molds, etc. which can occur when an air conditioning system is not in operation are prevented.



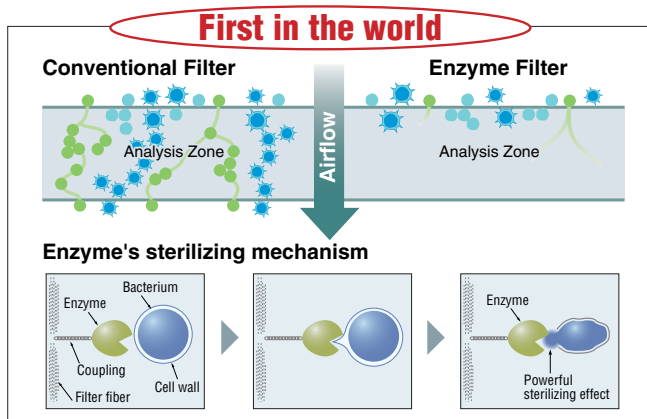
*Sure to destroy fungi and bacteria, also effective on viruses and allergenic compounds (Cat hair, dust mite, pollen etc.)*

## Natural Enzyme Filter

The first release in this range of the enzyme-sterilizing filter

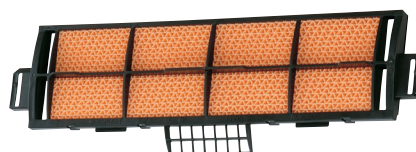


Enzymes used in these filters are naturally occurring lytic enzymes. The lytic enzymes attack cell walls of microorganisms trapped on a filter and destroy them and doing so, have a powerful sterilizing effect which will effect decrease the number of molds and bacteria. Natural Enzyme Filter will clean and sanitize air passing through it to keep air in the room clean and safe.



*The deodorizing ability of this filter can be easily restored simply by cleaning and exposing to the sunlight*

## Photocatalytic Washable Deodorizing Filter



It will keep the air fresh by deodorizing the molecules causing odor. Its deodorizing power can be restored by washing with water and drying under the sun, as such it is a Recycling deodorizing filter capable of repeat use.



*Long lasting*

## Silicon-coated PCB

The printed wiring board of the outdoor unit is coated by silicon. It lasts long having a tolerance for humidity.



SRK20HG  
SRK28HG  
SRK40HG



SRC20HG  
SRC28HG  
SRC40HG



SRK52HE-2  
SRK63HE-2  
SRK71HE-2



SRC52HE-2  
SRC63HE-2

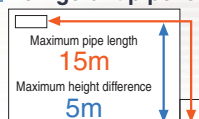


SRC71HE-2

**R22**

**Heat Pump**

#### Refrigerant pipe length



#### SPECIFICATIONS

Item Model (Indoor unit/Outdoor unit)			SRK/SRC20HG	SRK/SRC28HG	SRK/SRC40HG	SRK/SRC52HE-2	SRK/SRC63HE-2	SRK/SRC71HE-2
Power source			1Phase, 220/230/240V, 50Hz					
Cooling capacity	ISO-T1(JIS)	kW	2.07	2.53	3.5	5.4	6.1	6.8
Heating capacity	ISO-T1(JIS)	kW	2.36	2.67	3.7	5.6	6.3	7.2
Cooling input		kW	0.655	0.77	1.09	1.73	2.17	2.05
Heating input		kW	0.64	0.685	1.09	1.49	1.83	1.88
COP (In cooling)			3.16	3.29	3.21	3.12	2.81	3.32
COP (In heating)			3.69	3.90	3.39	3.76	3.44	3.83
Cooling current		A	2.9/3.1/3.3	3.6/3.4/3.2	5.0/4.8/4.6	8.6/8.3/7.9	10.8/10.4/9.9	10.2/9.8/9.4
Heating current		A	2.9/3.1/3.3	3.2/3.0/2.8	5.0/4.8/4.6	7.4/7.1/6.8	9.1/8.7/8.4	9.4/9.0/8.6
Sound power level (Indoor/Outdoor)	Cooling	dB(A)	53/59	55/60	56/63	59/65	59/65	59/69
	Heating	dB(A)	53/59	56/60	57/64	59/65	60/65	59/70
Sound pressure level (Hi / Me / Lo)	Cooling(Indoor)	dB(A)	35/28/26	39/33/30	40/38/34	43/39/36	44/40/37	45/41/38
	Heating(Indoor)	dB(A)	34/31/27	39/33/29	40/38/34	41/39/37	42/40/38	44/42/39
Exterior dimensions(H×W×D)	Indoor/Outdoor	mm	268×790×199 / 540×780×290			318×1098×248 / 640×850×290		318×1098×248 / 750×880×340
Net weight	Indoor/Outdoor	kg	8.5/28	8.5/31	8.5/38	15/47	15/48	15/63
Refrigerant piping (Outer dimention)	Liquid line	mm(in)	φ6.35 (1/4")			φ6.35 (1/4")		
	Gas line		φ9.52 (3/8")		φ12.7 (1/2")	φ15.88 (5/8")		
Refrigerant			R22					
Clean filter			Natural Enzyme Filter×1 Photocatalytic Washable Deodorizing Filter×1					

#### Comfortable Functions



##### Automatic Operation

The air conditioner automatically selects from among heating, cooling and dry operations.



##### "HI POWER" Operation

The unit can operate continuously in "HI POWER" mode for 15 minutes. This mode is convenient to reach the desired temperature quickly.



##### Three "Hot" System

This series offers three "hot" systems. "Hot start" allows the unit to begin operating immediately, while the "hot spurt" fast-heating system works to increase the temperature setting by two degrees. The "hot keep" system is used during automatic defrosting or to prevent the influx of cool air. These three operational control systems help ensure comfortable and efficient heating.



##### Air Scroll

The swing of the flap causes the air flow to spiral as it reaches the floor, and breeze reaches all of a room.

##### COOLING & DRY

Thick line — : moves quickly  
Thin line — : moves slowly

##### HEATING

Thick line — : moves quickly  
Thin line — : moves slowly



##### Lateral swing

It sends a pleasant breeze to a wide range in the room by swinging the louver to right and left automatically. Louver angle can be fixed at any desired position.



##### On Timer

This facility enables the operation to start a little earlier, so that the room approaches optimum temperature at ON time when the operation is started by ON-TIMER. Thus it will try to be at the temperature you want, when you want.



##### Economy Mode

The unit realizes effective energy saving operation, while still keeping a comfortable cooling and heating condition.



##### Dry Operation

The unit dehumidifies the room by intermittent cooling operation.



##### 24-hour On/Off Programmable Timer

By combining a start timer with a stop timer, you can register two timer operations a day. Once set, timers will faithfully start or stop the system at a specified time of the day repeatedly.



##### Off Timer

The unit stops automatically at the set time.



##### Sleep Mode

The room temperature is automatically controlled during the set sleep mode period, ensuring that room temperature will not get too cold or too hot.

#### Maintenance & Prevention Functions



##### Microcomputer-Operated Defrosting

This mode automatically eliminates frost, and helps minimize excessive operation in other modes.



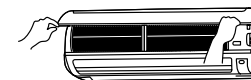
##### Self-Diagnostic Function

In the case that the air conditioner malfunctions, an internal microcomputer automatically runs a self-diagnosis. (Inspection and repair should be performed by authorized dealers.)



##### Detachable Indoor Air Inlet Panel

The air inlet panel on the indoor unit opens and closes easily, making filter cleaning simple. The suction panel can also be removed.



When removing the air inlet panel for internal cleaning or others, open the grill by 65 degrees and then pull it to this side.

#### Comfortable Air Flow Functions



##### Auto Flap Mode

Whatever the operating mode is, the unit automatically selects the optimal angle.

##### COOLING & DRY

Horizontal blowing

##### HEATING

Slant forward blowing



##### Memory Flap

While the flap is swinging, it can be stopped at any angle desired. The flap returns to the position that it was in when operation last

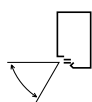


##### Up/Down Flap Swing

The UP/DOWN flap can be adjusted to the preferred operations angle, ranging from horizontal to perpendicular.

##### SWING FLAP

Flap moves up and down continuously.



#### Others



##### Back-up Switch

On the main unit, there is a backup on/off switch, which is useful when you can't use remote control, or batteries are flat.



##### Auto Restart Function

Power blackout auto restart function is a function that records the operational status of the air-conditioner immediately prior to it being switched off by a power cut, and then automatically resumes operations at that point after the power has been restored.



##### 24-hour ION

Tourmaline-coated sheet generates negative ions around the clock. Even when the air conditioner is not running, it generates as many negative ions as a forest, stream or fall does, allowing you to experience them without incurring any electricity charges.



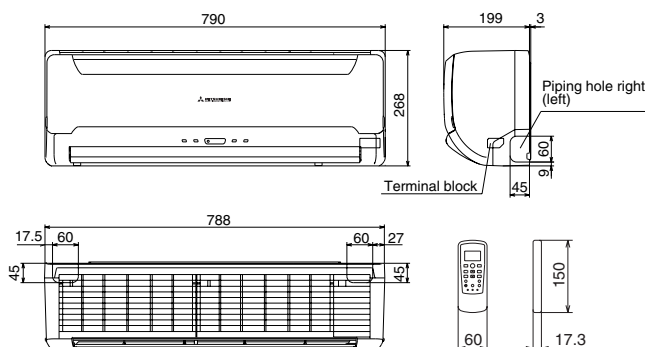
##### Luminas Button

With wireless "Luminas" remote controls that even "glow in the dark", it is possible to operate all desired functions of the unit with the click of a button.

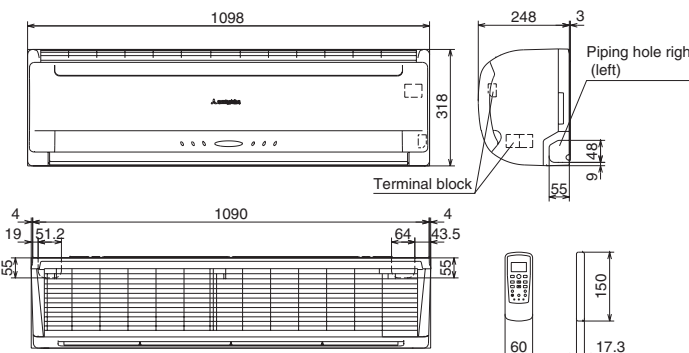
## Dimensions

### INDOOR UNIT

#### SRK20HG, SRK28HG, SRK40HG

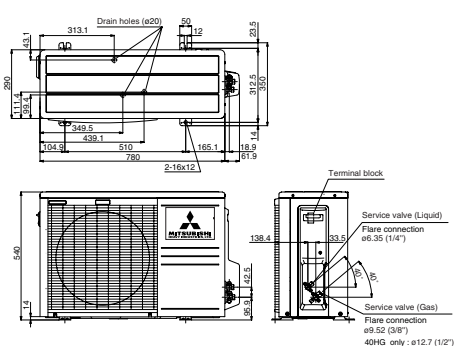


#### SRK52HE-2, SRK63HE-2, SRK71HE-2

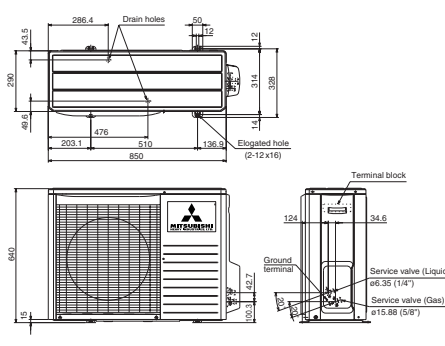


### OUTDOOR UNIT

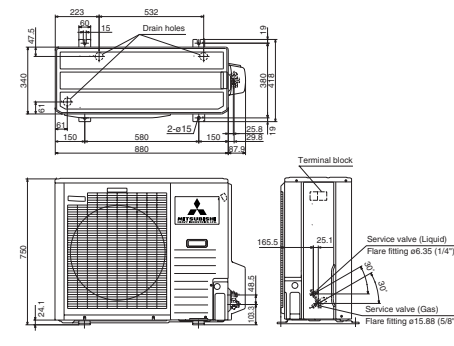
#### SRC20HG, SRC28HG, SRC40HG



#### SRC52HE-2, SRC63HE-2



#### SRK71HE-2



## Before starting use

### Before use

Always read the "User's Manual" thoroughly before starting use.

### Heating performance

The heating performance values (kW) described in catalog are the values obtained by operating at an outdoor temperature of 7°C and indoor temperature of 20°C as set forth in the ISO Standards. As the heating performance decreases as the outdoor temperature drops, if the outdoor temperature is too low and the heating performance is insufficient, use other heating appliances as well.

### Installation

Always commission the installation to a dealer or specialist. Improper installation will lead to water leakage, electric shocks and fires. Make sure that the outdoor unit is stable in installation. Fix the unit to stable base.

### Use in acidic or alkaline atmosphere

If this unit is used in an acidic or alkaline atmosphere such as hot spring areas having high levels of sulfuric gases, places where the exhaust of the heat exchanger is sucked in, or at coastal areas where the unit is subject to salt breezes, the outer plate or heat exchanger, etc., will corrode. Please ask a dealer or specialist when you use an air conditioner in places differing from a general atmosphere.



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<http://www.mhi.co.jp>

### Our factories are ISO9001 and ISO14001 certified.

#### Certified ISO 9001



BIWAJIMA PLANT  
Mitsubishi Heavy Industries, Ltd.  
Air-conditioning & Refrigeration Systems Headquarters  
Certified ISO 9001  
Certificate Number : JQA-6709  
Date of certification : December 16, 1994



MITSUBISHI HEAVY INDUSTRIES-  
MAHAJAK AIR CONDITIONERS CO., LTD.  
Certified ISO 9001  
Certificate Number : 04104 1998 0813  
Date of Registration : October 1998

#### Certified ISO 14001



BIWAJIMA PLANT  
Mitsubishi Heavy Industries, Ltd.  
Air-conditioning & Refrigeration Systems Headquarters  
Certified ISO 14001  
Certificate number : JQA-EM256  
Date of certification : November 29, 1998



MITSUBISHI HEAVY INDUSTRIES-  
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Certificate Number : 04104 1998 0813 ES  
Date of Registration : December 2005



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